

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Examiner : Kantamneni, Shobha
Art Unit : 1617
Applicants : Kivlighn et al.
Serial No. : 09/892,505
Filed : June 28, 2001
For : Treatment For Cardiovascular Disease

DECLARATION OF GEORGE BAKRIS, M.D.

I, George Bakris M.D., hereby declare and say as follows:

THAT, I am Professor of Medicine and Director of the Hypertensive Diseases Center at the University of Chicago, Pritzker School of Medicine. I am a recognized world expert in the field of high blood pressure (see my curriculum vitae attached) and am also a member and coauthor of the Joint National Committee 7 on the Prevention, Detection, Evaluation, and Treatment of High Blood Pressure¹ which provides the primary guidelines for blood pressure management in the United States. I am well versed with the work of Dr Johnson as I have followed it from its beginnings in the mid to late 1990s and have also been moderator for many of the lectures he has given, including overseeing a debate on the role of uric acid that he had with members from the Framingham Heart Study group.

THAT, I am aware of the level of skill of one ordinarily skilled in the art of cardiovascular disease and kidney disease, and in particular, mechanisms of hypertension, d hereto; AND being thus duly qualified declare as follows:

1. Based on his experimental studies, Dr Johnson was the first to propose uric acid is a cause of hypertension². The novelty was the concept that uric acid caused hypertension, for the association had already been established. The longstanding belief, based on studies such as the Framingham Heart Study³, was that elevated uric acid in hypertension was a secondary phenomenon and not causative of hypertension. Moreover, the notion of prescribing medicines to lower uric acid for treating hypertension would have been considered, by experts in the field, as an improper and wasteful medical practice. As

such, we did not list uric acid as a risk factor for hypertension in the JNC7 report, nor was this done by any other major society.

2. I am aware that there were earlier studies in which it was reported that xanthine oxidase inhibitors could lower blood pressure in the spontaneously hypertensive rat (SHR)⁴. The authors of the SHR studies always thought that the xanthine oxidase inhibitors were functioning as antioxidants since they block xanthine oxidase-generated oxidants. In particular, never was efficacy linked with targeting uric acid levels to certain ranges. Moreover, the concept that these agents might be useful to treat hypertension was thwarted by the fact that these inhibitors did not lower BP in longterm studies in the SHR⁵⁻⁷. Incidentally, it should be noted that antioxidants have largely failed in the treatment of hypertension⁸. This does not mean that oxidants produced by xanthine oxidase may be important, for they could possibly play a role in hypertension. However, whether or not this occurs, the studies conducted in the SHR rat prior to 2001 did not provide a motivation to those skilled in the field to administer xanthine oxidase inhibitors to lower uric acid to a certain level as a means to lower hypertension. It bears repeating that controlling uric acid as a means to control hypertension was originally suggested by Dr. Richard Johnson.

3. I have read the editorial published in 1998 by Ward⁹ which is a mini-review of the theories concerning uric acid discussed in the literature at that time: some suggesting uric acid is a risk factor and some suggesting that uric acid is protective. The Ward paper does not assert either way whether uric acid is a risk factor or protective. The Ward paper clearly does not hypothesize nor suggest that uric acid plays a causative role in hypertension. It is important to understand that those skilled in the art of science and medicine are careful to not confuse something considered as a risk factor with something that is a causative factor. As an example, let's assume that a study finds that drinking alcohol is a risk factor associated with lung cancer. Those skilled in the art would not assume from this that drinking alcohol causes lung cancer (the medical community would undoubtedly interpret this study to mean that many people who drink also smoke). Likewise, when Ward or any similar paper in the literature prior to the Framingham Heart

Study discussed the possibility of uric acid as being a risk factor for hypertension, this was not interpreted to mean that uric acid caused hypertension. The only way to determine whether drinking alcohol causes lung cancer or to determine whether uric acid causes hypertension is to test the hypothesis by conducting a scientific study. The study conducted in the paper published by the Framingham Heart Study Group³ was directly tailored to examine the same theories regarding uric acid that were discussed by Ward. As alluded to above, the Framingham Heart Study Group emphatically concluded that uric acid does not have a causative role in cardiovascular disease. Furthermore, prior to Dr Johnson's work there was no proposed mechanism(s) by which uric acid might cause hypertension. Accordingly, the Ward paper itself did not provide a motivation in the art to control uric acid levels as a means to control hypertension.

4. The undersigned declares further that all statements made herein of his own knowledge are true and that all statements made on information in belief are believed to be true; and further that these statements were made with the knowledge that willful false statements in the like so made are punishable by fine or imprisonment, or both, under §1001 of title 18 of the U.S.C. and that such willful false statements made jeopardize the validity of the application or of any patent issuing thereon.

Further declarant sayeth naught.



[name]

October 17, 2007

Date

1. Chobanian AV, Bakris GL, Black HR, Cushman WC, Green LA, Izzo JL, Jr., Jones DW, Materson BJ, Oparil S, Wright JT, Jr., Roccella EJ. The Seventh Report of the Joint National Committee on Prevention, Detection, Evaluation, and Treatment of High Blood Pressure: the JNC 7 report. *Jama* 2003;289:2560-72.
2. Mazzali M, Hughes J, Kim YG, Jefferson JA, Kang DH, Gordon KL, Lan HY, Kivlighn S, Johnson RJ. Elevated uric acid increases blood pressure in the rat by a novel crystal-independent mechanism. *Hypertension* 2001;38:1101-6.
3. Cullerton BF, Larson MG, Kannel WB, Levy D. Serum uric acid and risk for cardiovascular disease and death: the Framingham Heart Study. *Ann Intern Med* 1999;131:7-13.
4. Miyamoto Y, Akaike T, Yoshida M, Goto S, Horie H, Maeda H. Potentiation of nitric oxide-mediated vasorelaxation by xanthine oxidase inhibitors. *Proc Soc Exp Biol Med* 1996;211:366-73.
5. Laakso J, Mervaala E, Himberg JJ, Teravainen TL, Karppanen H, Vapaatalo H, Lapatto R. Increased kidney xanthine oxidoreductase activity in salt-induced experimental hypertension. *Hypertension* 1998;32:902-6.
6. Maenishi O, Ito H, Suzuki T. Acceleration of hypertensive cerebral injury by the inhibition of xanthine-xanthine oxidase system in stroke-prone spontaneously hypertensive rats. *Clin Exp Hypertens* 1997;19:461-77.
7. Trachtman H, Valderrama E, Futterweit S. Nephrotoxicity of allopurinol is enhanced in experimental hypertension. *Hypertension* 1991;17:194-202.
8. Ward NC, Croft KD. Hypertension and oxidative stress. *Clin Exp Pharmacol Physiol* 2006;33:872-6.
9. Ward HJ. Uric acid as an independent risk factor in the treatment of hypertension. *Lancet* 1998;352:670-1.

CURRICULUM VITAE

PERSONAL INFORMATION

NAME: George Louis Bakris, M.D., F.A.C.P., F.A.H.A, F.A.S.N

DATE OF BIRTH: June 15, 1952

BIRTHPLACE: Athens, Greece

CITIZENSHIP: U.S.A.

HOME ADDRESS: 1420 Wellington Terrace, Munster, IN 46321

BUSINESS ADDRESS: University of Chicago Pritzker School of Medicine,
Department of Medicine, Hypertensive Diseases Center, Section of
Endocrinology, Diabetes and Metabolism, 5841 S. Maryland
Ave., MC 1027, Room P-328A, Chicago, IL 60637
Administrative Asst.-Barbara-773.702.7936; FAX: 773.834.0486;
Direct Line-773.702.7930; email: gbakris@earthlink.net

MARITAL STATUS: Married, wife - Demetria
Two Children - Athena, 1986; Louis, 1991

EDUCATION

Undergraduate: Indiana University, Bloomington, IN
DEGREE: B.A., Biology and Psychology, 1974

Graduate: University of Chicago, Chicago, IL
DEGREE: M.A., Human Development, 1975

*Thesis- Hypothalamic-Pituitary-Adrenal Axis & Norepinephrine
Metabolism in Depressive Illness;* Advisor - John M. Davis, M.D.

Medical School: University Health Sciences/Chicago Medical School, No. Chicago,
DEGREE: M.D., Medicine, 1981

POSTGRADUATE CLINICAL AND RESEARCH TRAINING

Internship: *Internal Medicine*, 4/81-4/82

Mayo Graduate School of Medicine, Rochester, MN, Advisor - Randall Vollersten

Residency: *Internal Medicine*, 4/82-6/82

Mayo Graduate School of Medicine, Rochester, MN; Advisor - Randall Vollersten

Residency: *Psychiatry*, 7/82-6/83

Washington University School of Medicine, St. Louis , MO- Samuel Guze

Research Fellowship: Renal Physiology and Hypertension, 7/83-9/84

Mayo Graduate School of Medicine, Rochester, MN; Advisor - John C. Burnett, Jr.
Residency: *Internal Medicine*, 9/84-6/86
University of Illinois at Chicago; Advisor-Ruy Lorenzo
Fellowship: *Nephrology*, 7/86-6/88
University of Chicago Medical Center, Chicago, IL; Advisor - Adrian Katz
Fellowship: *Clinical Pharmacology*, 7/86-6/87
University of Chicago Medical Center, Chicago, IL; Advisor - Leon Goldberg,

PAST AND CURRENT ACADEMIC APPOINTMENTS

Current:

Professor of Medicine; Director, Hypertensive Diseases Center, Section of Endocrinology, Diabetes and Metabolism, University of Chicago Pritzker School of Medicine, 8/06-present

Past:

Professor (tenured), Departments of Preventive Medicine and Internal Medicine; Vice-Chairman, Department of Preventive Medicine; Director, Hypertension/ Clinical Research Center -1/99-6/06
Director and Founder of Rush Hypertension Fellowship Program-6/93-6/06
Lecturer- Division of Nephrology, University of Illinois Medical Center 1/94-6/07
Associate Professor (tenured), Departments of Preventive Med and Internal Med 12/96-12/99
Assistant Professor, Departments of Preventive Med and Internal Med;4/93-12/96
Assistant Professor of Medicine and Pharmacology, Division of Nephrology & Director of Renal Fellowship Program University of Texas Health Science Center at San Antonio, 8/91 - 3/93
Staff Nephrologist and Director of Renal Research, Ochsner Clinic, New Orleans, LA- 8/88-7/91
Assistant Professor of Medicine, Section of Clinical Pharmacology, Tulane University School of Medicine, New Orleans, LA, 10/88 -7/91
Adjunct Assistant Professor of Physiology & Pharmacology, Tulane University School of Medicine, 10/88-7/91

BOARD CERTIFICATION:

Diplomate- National Board of Medical Examiners, 1982
Diplomate- American Board of Internal Medicine
Internal Medicine, September, 1986 (106504)
Diplomate- American Board of Internal Medicine
Nephrology, November, 1992 (106504)
Clinical Hypertension Specialist- Am. Society of Hypertension, 1999

LICENSURE:

Illinois 1986 Permanent 036-064409
Louisiana 1988 Permanent 07707 (Inactive)
Texas 1992 Permanent J0912 (Inactive)

HONORS AND AWARDS:

Listed In America's Top Doctors-2006 &2007
Hellenic Medical Society of New York-Distinguished Physician Award, 2003
American Diabetes Association (Illinois Affiliate)-Father of the Year Award-2003
National Kidney Foundation of South Texas Award-For help organizing and
making operational the San Antonio chapter, 1993
National Kidney Foundation National Award- Comprehensive Excellence in Medical Education,
Boston, 1993
Chicago Medical School Scholastic Award 1981[This award is given to the student who had the
highest grades on his/her clinical rotations].
Chicago Medical School, Dean's Award [This award is given to the top ten medical students of
graduating class that have demonstrated outstanding scholastic achievement and best
exemplify the ideals of the school.] 1981
Alpha Omega Alpha Medical Honor Society
Graduated in the upper 10% percent of medical class

PROFESSIONAL ORGANIZATIONS:

Fellow of:

American Society of Nephrology
American College of Clinical Pharmacology
The American College of Physicians
The American Heart Association (Council for the Study of High Blood Pressure
Council on the Kidney)

Member of

The American Society of Nephrology
The International Society of Nephrology
Central Society for Clinical Research
National Executive Boards
Board of Reagents -American College of Clinical Pharmacology (1996-2005)
Hypertension Executive Council-National Kidney Foundation (1996-1999);(Chairman)-(1998-
1999)
Member of National Kidney Foundation-President's Council (1999-present)
National High Blood Pressure Education Council (NHLBI-NIH)-JNC (2000-present)

EDITORIAL BOARDS:

Editor: Am. J of Nephrology (6/02-present)
Hypertension Section Editor: Up-To-Date - (7/06-present)

Associate Editor:

J Human Hypertension-(6/2007-present)
www.thekidney.org (Hypertension, Section Editor)-(6/2004-present)
Am. J Kidney Disease (1/02-6/04)
Translational Med. (7/01-present)

Kidney: Current Survey of World Lit. (10/93-1/2002)
J Clinical Pharmacology-Renal Section Editor (1/93-present)
Postgraduate Medicine - Nephrology Section Editor (1/92-present)

Member

Diabetes Care (2007-2009)
J of the Cardiometabolic Syndrome-(11/2005-present)
Advances in Chronic Kidney Disease (1/2003-present)
Am J Hypertension (11/99-2003)
Kidney International (7/99-1/02; 1/05-present)
Cardiovascular Drugs and Therapy (1/99-present)
J of Nephrology (1/97-present)
Hypertension (1/97-1/02; 1/03-present)
Hypertension, Dialysis & Clinical Nephrology (HDCN)-Internet J. (6/96-present)
Journal of Human Hypertension (12/94-present)
Journal of Diabetes and Its Complications (7/91-present)
Nephrology, Dialysis and Transplantation (1/02-present)

GUEST EDITOR: TOPICS

J Clinical Pharmacology-(Progression of Diabetic Renal Disease)- 4/95
J Human Hypertension – (The Lanai Symposium)-1/97
Coronary Artery Disease- (Renal Disease in the Elderly)-12/1997
Hypertension, Renal Section (Supplement to Annual HBPC Meeting)-1/1998
Mineral and Electrolyte Metabolism- (Renin Angiotensin System & Kidney In Diabetes)-January, 1999

ACADEMIC COMMITTEES (Past and Present)

Member, Research Advisory Committee, Ochsner Clinic (1/89-6/91)
Member, Medical Advisory Panel/Hypertension in Blacks - National Institutes of Health (NIDDK) [10/91-1/92]
Grant Reviewer-American Heart Association and National Kidney Foundation-National/Local (1991-present)
Chairman-Diabetic Nephropathy-Clinical, Program Committee, American Society of Nephrology Meeting- 1990,1992,1999
Co-Chairman- American Heart Assoc. Council on the Kidney-National Meeting.
Preventing Progression of Diabetic Renal Disease- Dallas, TX, 1991
National Organizing Committee and Chairman of Symposium “Approaches to the Treatment of Diabetic Renal Disease”, Am College of Clin Pharmacol (11/93)
Consultant-Cardio-Renal Advisory Board [FDA]-(1993-2002)
Member, Ad Hoc Review Committee for Program Projects-NHLBI [National Institutes of Health, 1992,1995,1997,1999, 2000
Clinical Research Center (GCRC) Review Committee, University of Texas Health Science Center, San Antonio (4/92-4/93)
Member-National High Blood Pressure Education Program Working Group on

Hypertension and Renal Disease - NIH (Heart, Lung and Blood Institute)1994
Program Committee- AHA Blood Pressure Council (1996-1999)
Writing Member, The Joint National Committee of the High Blood Pressure
Education Program Working Group (JNC VI), NIH- 1997
Chairman-Clinical Outcomes/Trials Program Committee, American Society of
Nephrology Meeting- 1997
Master's of Science in Clinical Research Program-(NIH K30) (Co-Principal
Investigator) -Rush University Medical Center (1999-2005)
Postgraduate Education Comm.-Am. Society of Nephrology (ASN)(2000-2006)
Program Committee, Chairman- National Kidney Foundation-Annual Meeting (1998-2000)
Executive Committee Member, The Joint National Committee of the High Blood
Pressure Education Program Working Group (JNC 7), NIH (NHLBI)- 2002-2003
NIH Clinical Trials Study Section-Ad hoc member (1999-2003)
Rush University Continuing Medical Education Committee (2002-2006)
American College of Clinical Pharmacology CME Committee (2000-present)

ADMINISTRATIVE POSITIONS IN NATIONAL ORGANIZATIONS (Past and Present)

USP Nephrology/Urology Expert Committee-Member-2007-present
Chairman, Complications Committee-*American Diabetes Assoc.* (2004-2005 &06-07)
Member/Vice-Chair, Institutional Review Board (IRB), *Rush University Medical
Center*- (1998-2000)
Member, Executive Research Council, *Am. Heart Assoc.*-IL Affiliate, 1995-1998
Medical School Admissions Committee, *Rush Medical College* 1994-1997,
Chairman, (1996-1997)
National Kidney Foundation, Illinois Affiliate Medical Advisory Board, Executive
Committee, Chicago, 1995-present
Member, Accreditation Committee, Louisiana State Continuing Medical
Education (CME) Board (12/89-7/91)
Board of Directors, *National Kidney Foundation of Texas*(2/92-4/93)
Member: Board of Regents- *Am. College of Clinical Pharmacology* (1997-2005)
President, Hellenic Medical Society of Chicago, 1999-2000
President, American College of Clinical Pharmacology, 2000-2002.
Board of Directors, Member-International Soc. of Hypertension in Blacks (ISHIB)-2001-present

Listed in:

Top Physician's in America-2006, 2007
Who's Who in the World-2002-present
Who's Who (National Registry)-2002-present
Who's Who in Medicine and Healthcare-2001-present
Sterling's Who's Who in America-1999-present
Scientific Committees of the American Heart Association-1991-present
Who's Who In Diabetes (American Diabetes Association) -1999-present

RESEARCH ACTIVITIES

Current:

- Relationships between changes in vascular compliance and blood pressure reduction with agents that inhibits inflammatory cytokines.
- Clinical Trials that evaluate the effects of different antihypertensive therapy on kidney disease progression and cardiovascular outcomes

Previous:

- Progression of diabetic renal disease: a) mechanisms of proteinuria (effects of drugs on glomerular permeability and changes in mesangium), b) development of clinical trials of renal disease progression and focus on lipid metabolism
- Mechanisms of radio-contrast medium induced renal dysfunction.
- Pharmacological effects of drugs on renal hemodynamics
- Effects of vasoactive growth factors (ANG II, AVP, ET), insulin and glucose on the glomerular mesangial cell proliferation.

GRANT SUPPORT (current and previous)

National- G. Bakris-(Principal Investigator).

- Admixture Mapping to Examine the Genetics of Hypertensive Kidney Disease in African-Americans- NIDDK (Co-Investigator)- submitted (2006)
- AASK Cohort Study (African-American Study of Kidney Disease)- [UO1] (4/02-6/07)= \$1.5million K30-Clinical Research Center Training Grant –Co-P.I. (7/99-7/05)-\$1 million
- National Institutes of Health (NIDDK)-[U01 DK48643] (7/94-7/02)- *Progression of Renal Disease in African Americans (AASK Trial)*- \$3.2 million
- National Institutes of Health (NHLBI)-[1P50HL55007-01] (2/96-1/01)- *Genetics of Hypertension in African-Americans*-SCOR Grant-(Clinical Center) –Co-Investigator- PI Richard Lifton-Yale University- \$400,000
- American Assoc. of Kidney Patients (12/88-12/89) - Effects of insulin and glucose on human mesangial cell mitogenesis and endothelin production-\$20,000.
- Boehringer-Ingelheim- Research Fellowship in Clinical Pharmacology-1987-\$60,000
- National Institutes of Aging (NIA)- Psychological and physiologic changes during the menopausal transition (Consultant)- (1995-1997)- \$7500- 3% effort
- National Institutes of Health, NIDDK (1995-1997).Genetic Determinates of Nephropathy in NIDDM (Consultant) 10% effort-\$10,000/year-salary support.
- National Institutes of Health, NIDDK [U01] (9/91-3/93) - Modification of Diet in Renal Disease (MDRD Trial) (co-investigator) - \$25,000/year, salary support

Local and Regional Grants - G. Bakris (Principal Investigator)

- Alton Ochsner Medical Foundation Award (12/1/88-11/30/92) - The renal hemodynamic and cellular effects of calcium antagonists and converting enzyme inhibitors in diabetic dog - \$150,000.
- American Heart Association, Louisiana Affiliate (7/90-6/91) - The effects of arginine vasopressin on mesangial cell growth and endothelin production in various glucose milieus -\$14,974.
- American Diabetes Association, Louisiana Affiliate (7/89-6/90) - The effects of various hormones and glucose milieus on human mesangial cells growth - \$10,000.

Noel Foundation Research Award of the National Kidney Foundation of Illinois (1986-1987)-The role of oxygen free radical generation in radiocontrast medium-induced decreases in glomerular filtration rate - \$20,000

National Kidney Foundation of the Upper Midwest (7/1/84-6/30/85) – The contribution of oxygen free radicals in radiocontrast medium-induced renal hemodynamic changes - \$10,000

Investigator-Initiated Studies (Pharma. funding) -G. Bakris (Principal Investigator)

The protective effects of calcium antagonists on radiocontrast medium induced renal dysfunction -\$90,000. (1/87-1/88)

The renal effects of calcium antagonists and angiotensin converting enzyme inhibitors in the diabetic dog -\$60,000. (3/89-2/91)

A double blind placebo controlled multicenter trial evaluating the effects of misoprostol on renal hemodynamics following non-steroidal and anti-inflammatory drugs in diabetic man- \$130,000. (4/90-4/91)

The effects of combined therapeutic agents(calcium antagonists & ACE inhibitors) on renal preservation and proteinuria in diabetic subjects-\$149,000 (3/92-3/94)

The effects of different classes of calcium antagonists on glomerular permselectivity- \$300,000 (3/92-12/94)

The effects of similar classes of calcium antagonists on renal hemodynamics and albuminuria in type 2 diabetic patients -\$100,000 (5/92-4/93)

Double Blind Randomized Trial comparing the effects of different classes of calcium antagonist on changes in glomerular morphology in a remnant kidney model in the rat.-\$175,000 (1/95-6/97)-

Effects of combination therapy compared to either benazepril or amlodipine versus losartan on progression of glomerulosclerosis-\$109,000 (1997-1998)

The effects of valsartan on potassium homeostasis in patients with renal insufficiency-randomized, crossover, multicenter study -\$150,000 (8/97-8/99)

The effects of Lotrel on LDL cholesterol sub-fraction and glomerular permeability; a multicenter study -\$190,000 (9/97-9/99)-

The Effects of Nonionic versus Ionic Contrast Media on Renal Function: A double-blind trial, co-investigator- \$200,000 (6/89-6/91)

A Double-Blind, Randomized, Placebo-Controlled, Multicenter Trial To Evaluate the Safety and Efficacy of Intravenous Auriculin Human Atrial Natriuretic Peptide in the Treatment of Acute Tubular Necrosis. (PI)- 60,000. (3/93-3/94)

INVEST Trial (International Verapamil SR-Trandolopril Study) Co-Investigator,

Regional Director. (7/97-2002)

The comparative effects of a COX2 inhibitor versus a COX1 inhibitor on renal function and blood pressure-120,000 (2000-2001)

The comparative effects of an ACE I or ARB on potassium homeostasis- Merck-140K (1999-2001)

The comparative effects of an ACE inhibitor, ARB or combination on proteinuria reduction when controlling for blood pressure reduction-King Pharma- 2003-2004 (\$135K)

Comparison of the long term effects of different beta blockers on components of the metabolic syndrome-The GEMINI Trial-Principal Investigator- 2003-2004 Glaxo Smith Kline-(150K)

Comparison of Different type of Combination Antihypertensive Therapy on Insulin Resistance and the Metabolic Syndrome-The STAR Trial-Principal Investigator-Abbott Labs -(2003-2005)-(100K)

Effects of PPAR gamma on inflammatory factors in metabolic syndrome-GSK (400K)-2007-2008

NATIONAL/INTERNATIONAL CLINICAL TRAIL EXECUTIVE COMMITTEES:

VALUE
INVEST
ACCOMPLISH

DATA SAFETY MONITORING BOARDS-National Clinical Trials

CHICAGO trial-2003-2006

PERISCOPE-2003-2007

TAKEDA-Neuropathy Trail-Chair 2006-2007

TEACHING ACTIVITIES:

- ✿ Physical Diagnosis (basic and advanced)-Tulane University (8/89-6/91); University of Texas Health Science Center (8/91-3/93).
- ✿ Renal Pathophysiology lecture series (yearly) (8/91-3/93); University of Texas Health Science Center Nutrition lecture series (junior and senior medical students) (8/91-3/93); University of Texas Health Science Center at San Antonio
- ✿ Clinical Pharmacology Lecture Series (senior medical students/graduate students) (8/89-6/91)-Tulane University Medical School.
- ✿ Coordinator of the Renal Section - American College of Physicians -Update in 'Internal Medicine - (1992-1993)
- ✿ Coordinator of Renal Fellowship Training Program and Lecture Series- University of Texas Health Science Center at San Antonio (12/91-3/93)
- ✿ Coordinator of the Hypertension/Clinical Research Fellowship Training Program -Rush Presbyterian/St. Luke's Medical Center (4/93-present)
- ✿ Preventive Medicine/Hypertension Grand Rounds Director (1995-2002)
- ✿ Pathophysiology Lecture Series in Hypertension-Rush Medical College, Chicago(1/94-1/99)
- ✿ Annual Kidney Disease/Hypertension Lecture Series-Rush Graduate School of Nursing (1999-2006)
- ✿ Pathophysiology Lecture Series in Nephrology-University of Illinois Medical Center (1995-2000)
- ✿ Clinical Trials Course Director- for M. Sc. in Clinical Research Degree (K30)-Course Director-1999-2006)
- ✿ Harvard Nephrology Annual Board Review Update Course Lecturer (2000-2007)

POSTDOCTORAL FELLOWS SUPERVISED:

(* indicates academic appointments post fellowship)

1989-1991 Richard Slataper, MD*- *Oscher Clinic-Baton Rouge, LA*
1989-1990 Edward Sauter, MD*-*Assoc. Professor-MUSC*

1989-1991	Brian Demarie, MD- <i>Practice</i>
1990-1991	Vernon Valentino, MD- <i>Practice</i>
1990-1991	Bradley Barnhill, MD- <i>Practice</i>
1991-1993	Dan Riley, MD* <i>Assoc Professor- U Texas Health Science Center-San Antonio</i> Kevin Abbott, MD*- <i>Professor & Director Clinical Nephrology-USHOES</i>
1993-1994	David Hoelscher, MD- <i>Practice</i>
1994-1995	Amy Mangrum, MD*, <i>Asst. Professor-UVA-Charolettesville</i> Luke Kusmirek, MD*- <i>Asst. Professor-U of Kentucky</i>
1995-1996	Jung Yi, MD - <i>Practice</i>
1996-1997	Kostantinos Makrilakis, MD,PhD*- <i>Assoc. Professor-U of Athens School of Medicine-GREECE</i>
1997-1998	Imelda Villarosa, MD,- <i>Practice</i>
	Nauman Tarif, MD*- <i>Assoc. Professor-Medical School PAKISTAN</i>
1998-1999	Visclaw Drincic, MD- <i>Geriatrics Practice</i>
1999-2000	Unini Odama, MD- <i>Endocrinology Practice</i>
2000-2001	Munivar Izhar, MD*- <i>Asst. Prof.-Rush Medical College</i>
2001-2002	Jay Garg, MD*- <i>Industry</i>
2002-2003	Nicholas Kaperonis, MD- <i>Asst. Professor (GREECE)</i>
2002-2003	Renee Ellis, MD*- <i>Nephrology Practice</i>
2003-2004	David Chua, MD*- <i>Instructor-UVA-Charolettesville</i>
2004-2005	Ken Choi, MD- <i>Practice</i>
2005-2006	Nitin Khosla, MD- <i>Postdoctoral Fellow-UCSD</i>
2005-2006	Pantrelis Sarafidis, MD*- <i>Postdoctoral Fellow (GREECE)</i>
2006-2007	Atul Chugh, MD-
2007-2008	Irene Duka, MD

PUBLICATIONS - Original Papers

1. BAKRIS GL: Existential Psychology: A review. **J Instructional Psych.** 1977; 4: 13-20.
2. BAKRIS GL, Vernasco K, Verongas D: The consistency model of personality: An overview. **J Instructional Psych** 1980;7:71-76.
3. BAKRIS GL, Smith DW, Tiwari S: Dermatologic manifestations of lithium: A review **International J. of Psychiatry in Medicine** 1981;10:327-331.
4. BAKRIS GL, Taylor MA, Mulopulos GP, Wawczak S: Lithium prophylaxis and the kidney. **J. of Affective Disorders** 1981;3:37-42.
5. Tiwari S, BAKRIS GL: Psychogenic vertigo:A review. **Postgraduate Med.** 1981; 70:69-77
6. BAKRIS GL, Mulopulos GP, Tiwari S, Franklin C: Orphenadrine citrate: An alternative for muscle contraction headaches. **Illinois Med J** 1982;161:106-108.
7. BAKRIS GL: Clonidine for opiate withdrawal in the chronic pain patient. **Postgraduate Medicine** 1982; 71:240-241.
8. BAKRIS GL, Cross PD, Hammarsten J: The use of clonidine for management of opiate abstinence in a chronic pain patient. **Mayo Clinic Proc** 1982;57:657-660

9. Petruccelli B, BAKRIS GL, Miller T, Korpi E, Linnoila M: A liquid chromatographic assay for 5-hydroxy-tryptophan, serotonin and 5-hydroxyindoleacetic acid in human body fluids. **Acta Pharmacol et Toxicol** 1982;51:421-427.
10. BAKRIS GL, Mulopulos GP, Horchik R, Ezdinli EZ, Ro J, Yoon B: Pulmonary scar carcinoma: A clinic-pathologic analysis. **Cancer** 1983;52:493-497.
11. BAKRIS GL, Cross PD, Hammarsten J: Disopyramide associated liver dysfunction. **Mayo Clinic Proceedings** 1983;58:265-267.
12. BAKRIS GL, Zorumski CF: Chronic Pain: A pharmacologic review and behavior modification approach. **Postgraduate Medicine** 1983;73:119-128.
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ABSTRACTS (over 290-not listed)

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BAKRIS, GL Microalbuminuria: Marker of Kidney and Cardiovascular Disease Current Medicine Group, London, 2007
BAKRIS, GL Cardiovascular Risk and the Kidney, Dunitz Publishing, 2007-In preparation

ASSOCIATE Book Editor-

International Textbook of Cardiology Crawford MH, DiMarco JP and Paulus WJ (eds), 2004 and 2006 editions
Current Diagnosis & Treatment in Nephrology- The Lange Series, Nissensen A, Berns JS and Lerma E (Eds.) 2008 McGraw-Hill Pub., New York

Visiting Professorships

University of Hawaii, Nephrology Group-Honolulu, HI- July, 1992.
U. of So. Cal./LA County Hospital, Endocrine/Nephrology Sections-August, 1992
U of Miami School of Medicine, Nephrology section, Miami, FL., Jan.1994
Brookdale Medical Center, Nephrology section, Brooklyn, NY, October,1994
Royal University of Liverpool, Endocrinology Dept. -Liverpool, UK, Oct. 1994
U of Leicester, Hypertension/Medicine Dept- Leicester, UK, October, 1994
Guy's Hospital, Endocrinology Dept.- London, UK, June, 1995
Ohio State U Med. Center, Nephrology section-Columbus, Ohio, Mar, 1996
Allegheny University Med. Center, Nephrology-Philadelphia, PA, Nov, 1996
The Diabetes Institutes-Eastern Virginia Med School, Norfolk, VA, April, 1997
University of Washington, Nephrology Section, Seattle, WA, November, 1997
Ohio State University, Nephrology Section, Columbus, Ohio, February, 1998
U of Melbourne, Royal Melbourne Hosp, Melbourne, Australia, Mar. 1998
University of Maryland, Baltimore, MD, April, 1998
Joslin Diabetes Center, Boston, MA, October, 1999
Columbia University Medical Center, New York, NY April, 2000
University of Athens School of Medicine, Athens, Greece, September, 2000
Visiting Professorships (cont.)
King Faisal University Medical School, Riyadah, Saudi Arabia, January, 2001
Yale/New Haven Medical Center-New Haven, Conn., January, 2002

University of Florida, Gainsville, FL-April, 2003
Columbia Presbyterian/Cornell Hospitals, New York, May, 2003
Joslin Diabetes Center, January, 2004
Ottawa Heart Institute, Ottawa Canada, May, 2004
U of Washington, Seattle-Sept, 2004
U of Wisconsin, Madison-Nov., 2004
U of Alabama, Birmingham-Dec., 2004
U of Hawaii, Honolulu-Jan, 2005
U of California Los Angeles (UCLA)-Jan, 2005
Oxford University-Oxford, UK-Sept. 2005
East Virginia University, Norfolk, VA-Sept-2005
Kimmelstiel Lecturer (visiting professor)-U of Melbourne, Australia-July, 2006

INVITED LECTURES AND WORKSHOPS (summarized):

National and International Meetings & Symposia: Approximately 650 since 1985